

In the Claims:

I claim:

1. (currently amended) A fastener driving tool comprising: a tool nose through which a fastener is fired; a loading [[means]] apparatus for introducing said fastener into said tool nose; said fastener being propellable ~~adapted to be propelled~~ by a gas combustion mechanism, wherein said gas combustion mechanism comprises a first priming cylinder having a first piston, [[and]] an air intake and a first valve apparatus for fluidally connecting said air intake connected via a first valve means to a second delivery cylinder having a second piston, said first priming cylinder fluidally connected to a fuel gas reservoir via a second valve [[means]] apparatus, wherein said first priming cylinder receives ~~adapted to receive~~ fuel gas from said fuel gas reservoir and air through said air intake ~~thereby forming to form~~ an air/fuel gas mixture therein, wherein said first piston ~~adapted to compress~~ compresses said air/fuel gas mixture and ~~transfer~~ transfers said air/fuel gas mixture to said second delivery cylinder via said first valve [[means]] apparatus, and wherein said air/fuel mixture is ignited therein and ~~thereby urging urges~~ said second piston towards said fastener and ~~propelling propels~~ the same said fastener away from said tool nose.

2. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein said first piston is mechanically actuated.

3. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, [[or 2,]] wherein said second valve [[means]] apparatus is opened and closed via mechanical actuation.

4. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein said first piston is electromagnetically actuated.

5. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, [[or 4,]] wherein said second valve [[means]] apparatus is opened and closed via electro-magnetic actuation.

6. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein said fastener driving tool is a nail gun.

7. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein a mechanism movable between a first and a second position along said tool nose includes a latching [[means]] apparatus for engaging said second position, such that said air/fuel gas mixture is further compressed by said second piston as said mechanism is moved from said first to said second position with said latching

[[means]] apparatus engaged and wherein the downward force from the ignition of said air/fuel mixture overcomes said latching [[means]] apparatus and urges said second piston towards said fastener.

8. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein a bumper is disposed near the bottom of said second delivery cylinder, [[such]] said bumper being adapted to be compressed compressible by said second piston in the bottom of [[its]] the travel of said second piston and wherein the subsequent restoration of said bumper is ~~further adapted to~~ forcibly ~~return~~ returns said second piston back up said second delivery cylinder.

9. (currently amended) [[A]] The fastener driving tool as claimed in claim 8, wherein the interior of said bumper forms a chamber ~~adapted to port~~ for porting pressurised air via an outlet valve through a transfer channel to said first priming cylinder as said bumper is compressed.

10. (currently amended) [[A]] The fastener driving tool as claimed in claim 9, wherein said first piston has an internal receiver for storing said pressurised air.

11. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, ~~wherein~~ further comprising a sealing ring having a semi-flexible lip [[is]] and being disposed around the periphery of said second piston.

12. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, wherein a mixing fan is rotatably mounted to the interior of said second delivery cylinder.

13. (currently amended) [[A]] The fastener driving tool as claimed in claim 12, wherein an externally mounted motor drives said mixing fan via magnetic coupling.

14. (currently amended) [[A]] The fastener driving tool as claimed in claim 1, further comprising a plate valve and an exhaust plenum, wherein said ~~second delivery cylinder is exhausted via a~~ plate valve [[that]] fluidly connects said second delivery cylinder with [[an]] said exhaust plenum when said plate valve is opened for exhausting said second delivery cylinder.

15. (currently amended) An apparatus utilising a gas combustion mechanism for propulsion of an object, said gas combustion mechanism ~~comprises~~ comprising a first priming cylinder having a first piston and an air intake fluidally connected via a first valve [[means]] apparatus to a second delivery cylinder having a second piston, said first priming cylinder fluidally connected to a fuel gas reservoir via a second valve [[means]] apparatus, wherein said first priming cylinder ~~adapted to receive~~

receives fuel gas from said fuel gas reservoir and air through said air intake ~~thereby~~  
~~forming~~ to form an air/fuel gas mixture therein, wherein said first piston ~~adapted to~~  
~~compress~~ compresses said air/fuel gas mixture and ~~transfer~~ transfers said air/fuel gas  
mixture to said second delivery cylinder via said first valve ~~[[means]]~~ apparatus, and  
wherein said air/fuel mixture is ignited therein and ~~thereby urging~~ urges said second  
piston towards said object ~~thereby propelling the same~~ to propel said object.